

Claims

What is claimed is:

1. A headlamp for a vehicle which is constituted to form a
5 light distribution pattern for a low beam, comprising:

a plurality of lighting units using semiconductor light
emitting elements as light sources,

wherein a cutoff line forming unit for carrying out a light
irradiation to form a cutoff line of the light distribution
10 pattern for a low beam, a hot zone forming unit for carrying
out a light irradiation to form a hot zone of the light distribution
pattern for a low beam and a diffusion region forming unit for
carrying out a light irradiation to form a diffusion region of
the light distribution pattern for a low beam are used as the
15 lighting units.

2. The headlamp for a vehicle according to claim 1, wherein
the cutoff line forming unit includes a lighting unit of a
projector type which is constituted to reflect a light emitted
20 from a light source to be converged forward by a reflector and
to irradiate the reflected light forward from the lighting unit
through a projection lens provided in a forward part of the
reflector.

3. The headlamp for a vehicle according to claim 1, wherein the hot zone forming unit includes a lighting unit of a direct projection type which is constituted to irradiate a direct light emitted from the light source forward from the lighting unit through a condenser lens provided in a forward part of the light source.

4. The headlamp for a vehicle according to claim 1, wherein the diffusion region forming unit includes a lighting unit of a reflection type which is constituted to reflect a light emitted from the light source forward from the lighting unit by the reflector.

5. The headlamp for a vehicle according to claim 1, wherein the cutoff line forming unit includes a lighting unit of a projector type which is constituted to reflect a light emitted from a light source to be converged forward by a reflector and to irradiate the reflected light forward from the lighting unit through a projection lens provided in a forward part of the reflector,

the hot zone forming unit includes a lighting unit of a direct projection type which is constituted to irradiate a direct light emitted from the light source forward from the lighting unit through a condenser lens provided in a forward part of the

light source, and

the diffusion region forming unit includes a lighting unit of a reflection type which is constituted to reflect a light emitted from the light source forward from the lighting unit
5 by the reflector.

6. The headlamp for a vehicle according to claim 5, wherein the cutoff line forming unit, the hot zone forming unit and the diffusion region forming unit are provided in three upper and
10 lower stages with the cutoff line forming unit positioned in a middle stage.

7. A headlamp, comprising:

a plurality of lighting units operable to form a light
15 distribution pattern, the plurality of lighting units comprising:

a cutoff line forming unit operable to carry out a light irradiation to form a cutoff line of the light distribution pattern;

20 a hot zone forming operable to carry out a light irradiation to form a hot zone of the light distribution pattern; and
a diffusion region forming unit operable to carry out a light irradiation to form a diffusion region of the light distribution pattern.

8. The headlamp according to claim 7, wherein the plurality of lighting units include semiconductor light emitting elements as light sources.